AMENDMENTS

IN THE CLAIMS:

Please amend claims 1, 4 and 13, and cancel claims 2-3, 8-10 and 14-17 as follows:

1. (Currently amended) Method for selecting frequency channels in a data transmission method that uses a frequency hopping method, comprising:

determining an existence of interference on a frequency channel by detecting multiple erroneous transmissions in the frequency channel at a time that is independent of the other channels;

eliminating the frequency channel from a frequency hopping sequence when a determination is made that interference exists thereon;

measuring a strength of external signals within a frequency range of an eliminated frequency channel; and

measured strength is below a prescribed threshold value.

wherein determining whether interference exists further comprises:

identifying a number of error free transmissions on the channel within the predetermined period of time; and

reinserting the frequency channel into the frequency hopping sequence if the

using both the number of erroneous transmissions and the number of error free transmissions to determination whether interference exists on the channel, and wherein using both the erroneous and error free transmissions comprises:

incrementing a first counter each time an erroneous transmission is identified within the predetermined time period;

incrementing a second counter each time an error free transmission is identified within the predetermined time period;

generating a ratio based the counts of the first and second

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counters after the predetermined time period has elapsed; and
determining that interference exists on the channel when the ratio
exceeds a predetermined threshold.
2. (Cancelled).
3. (Cancelled).
4. (Currently amended) The method of Claim 1, wherein detecting an
erroneous transmission further comprises using checksums that are added to block-
transmitted data at an end thereof.
5. (Original) The method of Claim 4, wherein using checksums comprises adding a CRC (Cyclic Redundancy Check) code to each data block at the end thereof.
6. (Original) The method of Claim 1, wherein the data transmission method
comprises a timeslot method, and measuring the external signal strength comprises
measuring during unused timeslots.
7. (Original) The method of Claim 1, wherein measuring the external signal strength comprises performing a field strength measurement based on the RSSI (Radio Signal Strength Indication) method.
8. (Cancelled).
9. (Cancelled).
10.(Cancelled).

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- 11. (Original) A method for data transmission between at least two stations via radio links using the frequency hopping method and the frequency channel selection method of Claim 1.
- 12. (Original) The method of Claim 11 wherein the method is based on one of the transmission standards Bluetooth, WDCT, DECT or HomeRF.
- 13. (Currently amended) A method for selecting frequency channels in an adaptive frequency hopping methodology, comprising:

evaluating a channel for interference associated therewith at a time that is independent of at least some of the other channels;

eliminating the channel from a channel hopping sequence when the channel has interference;

re-evaluating eliminated channels; and

counters after the predetermined time period has elapsed; and

reinserting eliminated channels back into the channel hopping sequence when interference is no longer associated therewith, wherein evaluating the channel for interference further comprises:

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identifying a number of error free transmissions on the channel within the
predetermined period of time; and
using both the number of erroneous transmissions and the number of error
free transmissions to determination whether interference exists on the channel, and
wherein using both the erroneous and error free transmissions comprises:
incrementing a first counter each time an erroneous transmission is
identified within the predetermined time period;
incrementing a second counter each time an error free
transmission is identified within the predetermined time period;
generating a ratio based the counts of the first and second

determining that interference exists on the channel when the ratio exceeds a predetermined threshold.

- 14. (Cancelled).
- 15. (Cancelled).
- 16. (Cancelled).
- 17. (Cancelled).
- 18. (Previously presented) The method of claim 13, wherein re-evaluating an eliminated channel from the channel hopping sequence comprises:

measuring an interference signal strength associated with the channel; and determining that interference no longer exists on the channel when the measured interference signal strength is less than a predetermined amount.

19. (Previously presented) The method of claim 18, wherein determining that interference no longer exists further comprises:

decrementing a counter when the measured signal strength is less than a predetermined threshold;

comparing a count of the counter to a predetermined value; and determining that interference no longer exists when the count is less than or equal to the predetermined value.